

## **PCT**

REC'D 27 JUN 2005

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

plicant's or agent's file reference  FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International filing date (day/mo	onth/year) Priority date (day/month/year)
i	2000 (19 12 2000)
or national classification and IPC	
0, 1,1,2,1,2,1,2,2,0,1,2,2,0,0	0.13, 200.14, 200.23, 203.12, 203.15, 203.21, 203.22
US Cl.: 128/200.11, 200.12, 200	0.13, 200.14, 200.25, 200.15,
is transmitted to the applicant	een prepared by this International Preliminary t according to Article 36.
ccompanied by ANNEXES, i.e. nended and are the basis for thi ty (see Rule 70.16 and Section	<ul> <li>e., sheets of the description, claims and/or drawings is report and/or sheets containing rectifications made 607 of the Administrative Instructions under the PCT).</li> </ul>
cations relating to the followin	ng items:
eport	
ment of report with regard to r	novelty, inventive step and industrial applicability
III Non-establishment of report with regard to novelty. Inventive step or industrial  V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
cts in the international applicati	ion
rvations on the international ap	
I D	Date of completion of this report
ı	7 April 2005 (27.04.2005)
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	International filing date (dayhn 04 December 2003 (04.12.2003) or national classification and IPC 1 US Cl.: 128/200.11, 200.12, 200 imary examination report has be do is transmitted to the applicant of a total of sheets, including accompanied by ANNEXES, i. mended and are the basis for the ty (see Rule 70.16 and Section of a total of sheets.  ications relating to the following eport  ament of report with regard to the of invention terment under Article 35(2) with citations and explanations support in the international applicator relations on the international applicator of the internatio

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International application No.	
PCT/US03/38483	

I.	Bas	is of the report
		regard to the elements of the international application:*
	$\boxtimes$	the international application as originally filed.
	X	the description: pages 1-13 as originally filed pages NONE , filed with the demand
	<u> </u>	pages NONE , filed with the letter of
	K	the claims:  pages 14-18
	$\boxtimes$	the drawings:  pages 1-17, as originally filed  pages NONE, filed with the demand  pages NONE, filed with the letter of
		the sequence listing part of the description:  pages NONE, as originally filed  pages NONE, filed with the demand  pages NONE, filed with the letter of
2.	lang	h regard to the language, all the elements marked above were available or furnished to this Authority in the mage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	Wit inte	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the mational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go
thi	e ren	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**  incement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in our as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

Form PCT/IPEA/409 (Box I) (July 1998)

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V. Reasoned statement under Rule 66.2(a)(ii) we citations and explanations supporting such statement.	ith regar	d to novelty, inventive step or industrial applicabil	ity;
1. STATEMENT			
Novelty (N)		14-26, 29-34	YES
	Claims	1-4,6-13, 27, 28	_NO
Inventive Step (IS)		NONE	_YES _NO
	Clauns	1-34	
Industrial Applicability (IA)		I-34 NONE	_YES _NO
	Clamis	NOVE	
2. CITATIONS AND EXPLANATIONS Please See Continuation Sheet			
Total de Communication			



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Supplemental Box	
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## V. 2. Citations and Explanations:

Claims 1-4, 6-13, 27, and  $2\overline{8}$  lack novelty under PCT Article 33(2) as being anticipated by Nohl (6,390,088).

With respect to claim 1, Nohl discloses a container (2) having the pharmaceutical formulation comprising at least one medicament present therein; and a mouthpiece (6) configured for oral engagement, the mouthpiece having an inner surface and an outer surface; wherein the outer surface of the mouthpiece contains at least one longitudinally-extending groove (7) disuniformity such that when the patient orally engages the mouthpiece (6) at least one void space is created between the outer surface of the mouthpiece and the oral cavity of the patient so as to provide an air flow channel through the at least one void space to facilitate intake of the at least one medicament by the patient (Figs. 2, 3).

With respect to claim 2, Nohl discloses wherein the at least one longitudinally-extending disuniformity is selected from the group consisting of at least one protrusion, at least one indentation, at least one opening in the outer surface of the mouthpiece (6, Figs. 1, 2).

With respect to claim 3, Nohl discloses wherein at least one longitudinally-extending disuniformity comprises a plurality of protrusions (Figs. 2, 3).

With respect to claim 6, Nohl discloses wherein the protrusions are present throughout the outer surface of the mouthpiece (Figs. 2, 3).

With respect to claim 7, Nohl discloses wherein at least one protrusion is present as one protrusion (Figs. 2, 3).

With respect to claim 8, Nohl discloses wherein the at least one longitudinally-extending disuniformity comprises a plurality of indentations (Figs. 2, 3).

With respect to claim 9, Nohl discloses wherein the plurality of indentations comprise two indentations present opposite to each other along sides of the mouthpiece (Figs. 2, 3).

With respect to claim 10, Nohl discloses wherein the longitudinally-extending disuniformity is present as at least one opening (Figs. 2. 3).

With respect to claim 11, Nohl discloses wherein the at least one opening comprises a plurality of openings (Figs. 2, 3).

With respect to claim 12, Nohl discloses wherein the plurality of openings comprises two openings each present to each other on opposing sides of the mouthpiece (Figs. 2, 3).

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With respect to claim 13, Nohl discloses wherein the pharmaceutical formulation comprises at least one medicament (Col. 1, lines 8-19).
With respect to claim 27, note rejection of claims 1, 2, 8 and Col. 1, lines 8-19.
With respect to claim 28, Nohl discloses activating the inhaler to deliver the at least one medicament to the patient (Col. 1, lines 8-19).
Claim 5 lacks an inventive step under PCT Article 33(3) as being obvious over Nohl (6,390,088).
With respect to claim 5, Nohl does not specifically show the plurality of protrusions present opposite to each other along respective side of the mouthpiece. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have protrusions located opposite to each other along respective sides of the mouthpiece, since it has been held that rearranging of parts of an invention involves only routine skill in the art.
Claims 14-26 and 29-34 lack an inventive step under PCT Article 33(3) as being obvious over Nohl (6,390,088) in view of Rand (6,474,331).
With respect to claims 14-26 and 29-34 and the specific medicament Nohl does not disclose the specifics. Rand in an inhaler teaches the limitations of the above claims, therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to arrive at the specific medicament as claimed based on the teachings of Rand because such medicaments are well known in the respiratory art (Col. 9, lines 40-67 and Col. 10, lines 1-20).
NEW CITATIONS

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)